

WHAT IS CLAIMED IS:

1. A recording apparatus for optical recording media in which pre-pits which carry recording position information are formed in advance and a data signal is recorded in accordance with said recording position information, comprising:

a gate signal generating section for generating a gate signal in accordance with said data signal;

a pre-pit signal generating section for generating a pre-pit signal from a signal read from said optical recording medium;

a gate circuit for generating a pre-pit pulse train by allowing said pre-pit signal to pass therethrough in response to said gate signal;

a pulse extractor for extracting pulses of predetermined waveform from said pre-pit pulse train; and

a synchronization signal generating section for generating a recording synchronization signal based on said pulses of predetermined waveform.

2. The recording apparatus according to claim 1, wherein said pulse extractor detects the magnitude of said pre-pit signal at the time of switching in said gate circuit to extract the pulses by using the detection result.

3. The recording apparatus according to claim 1,  
wherein said pulse extractor extracts the pulses  
according to the magnitude of said pre-pit signal at a  
point of time delayed by a predetermined time from said  
5 switching time.

4. The recording apparatus according to claim 1,  
comprising an address decoder for generating address  
information from said pre-pit signals,  
10 wherein pre-pit signals outputted from said pre-pit  
signal generating section are supplied to said address  
decoder without passing through said gate circuit.